

AMENDMENTS

In the Claims:

Please cancel claims 23 and 48-54 without any prejudice and disclaimer.

Please replace claims 1, 3, 9, 21, 22 and 34-38 with the following clean set of amended claims 1, 3, 9, 21, 22 and 34-38. A mark-up version of the amended claims 1, 3, 9, 21, 22 and 34-38 is attached hereto as Exhibit A.

1. (Amended) An integrated microarray device, which device comprises a substrate comprising a plurality of distinct microlocations and a plurality of microarray chips, wherein the number of said microlocations equals to or is more than the number of said microarray chips, and wherein the microlocation(s) is thermally insulated by an inert gas.

3. (Amended) The device of claim 2, wherein the substrate comprises a silicon and the silicon is silicon dioxide or silicon nitride.

9. (Amended) The device of claim 1, wherein the number microlocations and the distance between each microlocations are the same as to a standard microtiter plate.

21. (Amended) The device of claim 10, wherein the microlocations are wells and at least one of the wells is thermally insulated.

22. (Amended) The device of claim 10, wherein the microlocations are wells and all of the wells are thermally insulated.

34. (Amended) The device of claim 33, wherein the moiety is a cell and the cell is selected from the group consisting of an animal cell, a plant cell, a fungus cell, a bacterium cell, a recombinant cell and a cultured cell.

35. (Amended) The device of claim 33, wherein the moiety is a cellular organelle and the cellular organelle is selected from the group consisting of a nuclei, a mitochondrion, a chloroplast, a ribosome, an ER, a Golgi apparatus, a lysosome, a proteasome, a secretory vesicle, a vacuole and a microsome.

36. (Amended) The device of claim 33, wherein the moiety is a molecule and the molecule is selected from the group consisting of an inorganic molecule, an organic molecule and a complex thereof.

37. (Amended) The device of claim 36, wherein the moiety is an inorganic molecule and the inorganic molecule is an ion selected from the group consisting of a sodium, a potassium, a magnesium, a calcium, a chlorine, an iron, a copper, a zinc, a manganese, a cobalt, an iodine, a molybdenum, a vanadium, a nickel, a chromium, a fluorine, a silicon, a tin, a boron and an arsenic ion.

38. (Amended) The device of claim 36, wherein the moiety is an organic molecule and the organic molecule is selected from the group consisting of an amino acid, a peptide, a protein, a nucleoside, a nucleotide, an oligonucleotide, a nucleic acid, a vitamin, a monosaccharide, an oligosaccharide, a carbohydrate, a lipid and a complex thereof.